

**CLASSIFICATION AND CORRELATION  
OF  
THE SOILS OF**

**WHITLEY COUNTY  
INDIANA**

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**APRIL 1985**

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**LOCATION**



**U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
MIDWEST NATIONAL TECHNICAL CENTER  
LINCOLN, NEBRASKA**

UNITED STATES DEPARTMENT OF AGRICULTURE  
Soil Conservation Service  
Midwest National Technical Center  
Lincoln, Nebraska 68508-3866

Classification and Correlation  
of the Soils of  
Whitley County, Indiana

The field correlation and final field review for the soil survey of Whitley County, Indiana, was held at Huntington, Indiana, October 29, 1984, through November 2, 1984. Participating in the final field review were Donald R. Ruesch, soil survey leader; Roger L. Haberman, soil correlator; and Jerry D. Larson, Indianapolis State Office. The data reviewed consisted of the first draft of the soil survey manuscript, correlation samples, field sheets, field notes, laboratory data, and SCS-SOILS-5 forms. The final correlation was held during the week of December 10, 1984. Participants included Jerry D. Larson, Donald R. Ruesch, and Roger L. Haberman. The final correlation decisions were based on the draft manuscript, field notes, field sheets, laboratory data, SCS-SOILS-6, correlation samples, and the field correlation.

Headnote for Detailed Soil Survey Legend:

Map symbols consist of a combination of letters or of letters and numbers. The first capital letter is the initial one of the map unit name. The lowercase letter that follows separate map units having names that begin with the same letter, except that it does not separate sloping or eroded phases. The second capital letter indicates the class of slope. Symbols without a slope letter are for nearly level soils or miscellaneous areas. A final number of 2 indicates that the soil is moderately eroded and a number 3 indicates that the soil is severely eroded.

SOIL CORRELATION OF  
WHITLEY COUNTY, INDIANA

Field symbols	Field map unit name	Publi- cation: symbol	Approved map unit name
Ae, Ad	Adrian muck, drained	Ae	Adrian muck, drained
BmA, BaA	Blount silt loam, 0 to 2 percent slopes	BmA	Blount silt loam, 0 to 2 percent slopes
BmB2, BaB2	Blount silt loam, 1 to 4 percent slopes, eroded	BmB2	Blount silt loam, 1 to 4 percent slopes, eroded
Bt, <u>Hs</u>	Boots muck, undrained	Bt	Boots muck, undrained
BvB, BoB	Boyer sandy loam, 2 to 6 percent slopes	BvB	Boyer loamy sand, 2 to 6 percent slopes
BvC, BoC, BoC2	Boyer sandy loam, 6 to 12 percent slopes	BvC	Boyer loamy sand, 6 to 12 percent slopes
BvD, KrD, KrD2, RxG, BoD, KsD2	Boyer sandy loam, 12 to 20 percent slopes	BvD	Boyer loamy sand, 12 to 20 percent slopes
BwA, KrA, FsA, KsA	Kosciusko sandy loam, 0 to 2 percent slopes	BwA	Boyer sandy loam, 0 to 2 percent slopes
BwB, KrB, FsB, KsB	Kosciusko sandy loam, 2 to 6 percent slopes	BwB	Boyer sandy loam, 2 to 6 percent slopes
BwC, KrC, FsC, FsC2, KsC	Kosciusko sandy loam, 6 to 12 percent slopes	BwC	Boyer sandy loam, 6 to 12 percent slopes
ByC3, FtC3, KtD3, KtC3	Kosciusko sandy clay loam, 6 to 12 percent slopes slopes, severely eroded	ByC3	Boyer loam, 6 to 15 percent slopes, severely eroded
Bz, Br, Bx	Brookston loam	Bz	Brookston loam
Wh, Co	Washtenaw Variant silt loam	Co	Coesse silty clay loam

## WHITLEY COUNTY, INDIANA --Continued

Field symbols	Field map unit name	Publication symbol	Approved map unit name
CsA, CrA, CtA	Crosier loam, 0 to 3 percent slopes	CsA	Crosier sandy loam, 0 to 3 percent slopes
DeA, De, <i>Fu</i>	Del Rey silt loam, 0 to 3 percent slopes	Fu	Fulton silty clay loam
GsB2	Glynwood silt loam, 3 to 8 percent slopes, eroded	GsB2	Glynwood loam, 3 to 6 percent slopes, eroded
GtB3	Glynwood clay loam, 3 to 8 percent slopes, severely eroded	GtB3	Glynwood clay loam, 3 to 8 percent slopes, severely eroded
Gw, Gm, Gr	Granby loamy sand	Gw	Granby loamy sand
HbA, HaA, HbB, HaB	Haskins loam, 0 to 3 percent slopes	HbA	Haskins loam, 0 to 3 percent slopes
HeG	Hennepin loam, 25 to 50 percent slopes	HeG	Hennepin loam, 25 to 50 percent slopes
HoA, Sm, <i>Ho</i>	Homer loam, 0 to 2 percent slopes	Ho	Homer loam
Hs	Houghton muck, undrained	Hs	Houghton muck, undrained
Ht, Bu, <u>Ht</u>	Houghton muck, drained	Ht	Houghton muck, drained
KaA, OcA	Kalamazoo sandy loam, 0 to 2 percent slopes	KaA	Kalamazoo sandy loam, 0 to 2 percent slopes
KaB, OcB2, OsB	Kalamazoo sandy loam, 2 to 6 percent slopes	KaB	Kalamazoo sandy loam, 2 to 6 percent slopes
MbB, MbA, MbB2	Martinsville loam, 2 to 6 percent slopes	MbB	Martinsville loam, 1 to 6 percent slopes
MbC, MbC2	Martinsville loam, 6 to 15 percent slopes	MbC	Martinsville loam, 6 to 15 percent slopes

## WHITLEY COUNTY, INDIANA --Continued

Field symbols	Field map unit name	Publi- cation: symbol	Approved map unit name
Md	Martisco muck, drained	Md	Martisco muck, drained
Mg, Ha, Lk	Mermill loam	Mg	Mermill loam
MmB2	Miami loam, 2 to 6 percent slopes, eroded	MmB2	Miami sandy loam, 2 to 6 percent slopes, eroded
MmC2	Miami loam, 6 to 12 percent slopes, eroded	MmC2	Miami sandy loam, 6 to 12 percent slopes, eroded
MmD2, RhD, WmD	Miami loam, 12 to 18 percent slopes, eroded	MmD2	Miami sandy loam, 12 to 18 percent slopes, eroded
MmE2, MoE3	Miami loam, 18 to 25 percent slopes, eroded	MmE2	Miami sandy loam, 18 to 25 percent slopes, eroded
MoC3	Miami clay loam, 6 to 12 percent slopes, severely eroded	MoC3	Miami clay loam, 6 to 12 percent slopes, severely eroded
MoD3, WpD3	Miami clay loam, 12 to 20 percent slopes, severely eroded	MoD3	Miami clay loam, 12 to 20 percent slopes, severely eroded
Ms, Pt, Bn, Le	Milford silty clay loam	Ms	Milford silty clay loam
MvB2, SbB, SbB2	Morley silt loam, 3 to 7 percent slopes, eroded	MvB2	Morley loam, 3 to 6 percent slopes, eroded
MvC2, SbC, SbC2	Morley silt loam, 7 to 12 percent slopes, eroded	MvC2	Morley loam, 6 to 12 percent slopes, eroded
MvD2	Morley silt loam, 12 to 20 percent slopes, eroded	MvD2	Morley loam, 12 to 20 percent slopes, eroded

## WHITLEY COUNTY, INDIANA --Continued

Field symbols	Field map unit name	Publi- cation symbol	Approved map unit name
MvE2	Morley silt loam, 20 to 30 percent slopes, eroded	MvE2	Morley loam, 20 to 30 percent slopes, eroded
MxC3	Morley clay loam, 5 to 12 percent slopes, severely eroded	MxC3	Morley clay loam, 5 to 12 percent slopes, severely eroded
MxD3	Morley clay loam, 12 to 20 percent slopes, severely eroded	MxD3	Morley clay loam, 12 to 20 percent slopes, severely eroded
MxE3	Morley clay loam, 20 to 30 percent slopes, severely eroded	MxE3	Morley clay loam, 20 to 30 percent slopes, severely eroded
Mz	Muskego muck, drained	Mz	Muskego muck, clay loam substratum, drained
OmB, OmA	Ormas loamy fine sand, 2 to 6 percent slopes	OmB	Ormas loamy fine sand, 0 to 4 percent slopes
OsA, BoA	Oshtemo sandy loam, 0 to 2 percent slopes	OsA	Oshtemo sandy loam, 0 to 2 percent slopes
Pa	Palms muck, sandy substratum, undrained	Pa	Palms muck, sandy substratum, undrained
Pb	Palms muck, sandy substratum, drained	Pb	Palms muck, sandy substratum, drained
Pw	Pewamo silty clay loam	Pw	Pewamo silty clay loam
Px	Pits, gravel	Px	Pits, gravel
RcA	Rawson sandy loam, 0 to 2 percent slopes	RcA	Rawson sandy loam, 0 to 2 percent slopes



## WHITLEY COUNTY, INDIANA --Continued

Field symbols	Field map unit name	Publi- cation symbol	Approved map unit name
RcB	Rawson sandy loam, 2 to 6 percent slopes	RcB	Rawson sandy loam, 2 to 6 percent slopes
RcC	Rawson sandy loam, 6 to 12 percent slopes	RcC	Rawson sandy loam, 6 to 12 percent slopes
Re	Rensselaer loam	Re	Rensselaer loam
RhB, RhA	Riddles sandy loam, 2 to 6 percent slopes	RhB	Riddles sandy loam, 1 to 6 percent slopes
RhC	Riddles sandy loam, 6 to 12 percent slopes	RhC	Riddles sandy loam, 6 to 12 percent slopes
Sa	Saranac silty clay loam, sandy substratum, frequently flooded	Sa	Saranac silty clay loam, sandy substratum, frequently flooded
Se, Ws	Sebewa loam	Se	Sebewa loam
SfB	Seward loamy fine sand, 2 to 6 percent slopes	SfB	Seward loamy fine sand, 2 to 6 percent slopes
SfC	Seward loamy fine sand, 6 to 15 percent slopes	SfC	Seward loamy fine sand, 6 to 15 percent slopes
Sh	Shoals silt loam, sandy substratum, frequently flooded	Sh	Shoals silt loam, sandy substratum, frequently flooded
So	Sloan loam, sandy substratum, frequently flooded	So	Sloan loam, sandy substratum, frequently flooded
SoB, SpA	Spinks loamy sand, 2 to 6 percent slopes	SpB	Spinks sand, 2 to 6 percent slopes
SpC, OmC, SpD	Spinks loamy sand, 6 to 15 percent slopes	SpC	Spinks sand, 6 to 15 percent slopes
St, Ge	Stonelick sandy loam, occasionally flooded	St	Stonelick Variant sandy loam, occasionally flooded

## WHITLEY COUNTY, INDIANA --Continued

Field symbols	Field map unit name	Publi- cation: symbol	Approved map unit name
Ud, Or	Udorthents, loamy	Ud	Udorthents, loamy
Wa	Wallkill silty clay loam	Wa	Wallkill silty clay loam
Wc, <u>Wa</u>	Wallkill Variant silty clay loam	Wc	Wallkill silty clay loam, coprogenous earth substratum
WmB, MkB, MKA, WmA	Wawasee sandy loam, 2 to 6 percent slopes	WmB	Wawasee sandy loam, 2 to 6 percent slopes
WmC, WDC3, Mkc	Wawasee sandy loam, 6 to 15 percent slopes	WmC	Wawasee sandy loam, 6 to 15 percent slopes
WtA, Wt	Whitaker loam, 0 to 3 percent slopes	Wt	Whitaker loam



Series Established by This Correlation:

Coesse (type location in Whitley County)

Series Dropped or Made Inactive:

None

Certification Statement:

The state soil scientist certifies that:

1. Mapping was completed on December 15, 1983.
2. The general soil map for general planning has been joined to the map for the completed Allen, Noble, Kosciusko, Wabash, and Huntington Counties. All lines join across county boundaries, except in a few places where the units from adjacent counties are too narrow or they do not extend into Whitley County. The names of some map units have some differences because of changes in concept, design of map units, newly established series, and proportion of soils within the map units. In most cases, the associations have similar soils. A detailed account of the joins is attached to the report of field correlation and final field review.

The detailed maps have been joined and color checked to prove that each unit is a closed delineation. All lines join. In some cases, map units were not on the soil identification legend of Whitley County. In Allen County a few units seemed to be in error, but most are similar soils. A few map units have outwash soils in Whitley County joining till soils in Allen County. The other surrounding counties join much better and have similar soils joining where a discrepancy does exist. A detailed account of the joins is attached to the report of field correlation and final field review.

3. Interpretations have been checked and the interpretations that will be used are those that are on the Soil Interpretation Records.
4. The location of pedon descriptions are in soil areas using those reference names and legal descriptions. The locations have been checked by the party leader.

Verification of Exact Cooperator Names:

The following will be on the front of the publication:

United States Department of Agriculture  
Soil Conservation Service  
in cooperation with  
Purdue University  
Agricultural Experiment Station  
and  
Indiana Department of Natural Resources  
Soil and Water Conservation Committee

The citation in the box on the inside of the front cover will read:

# CONVENTIONAL AND SPECIAL SYMBOLS LEGEND

Soil Survey Area: Whitley County  
State: Indiana

Date: 11/84

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
<b>CULTURAL FEATURES</b>		<b>CULTURAL FEATURES (cont.)</b>		<b>SPECIAL SYMBOLS FOR SOIL SURVEY</b>	
<b>BOUNDARIES</b>		<b>MISCELLANEOUS CULTURAL FEATURES</b>		<b>SOIL DELINEATIONS AND SOIL SYMBOLS</b>	
County or parish		Farmstead, house (omit in urban areas)	•		
Minor civil division		Church	⋈	<b>SHORT STEEP SLOPE</b> .....	
Field sheet matchline & neatline		School	⌚	<b>MISCELLANEOUS</b>	
AD HOC BOUNDARY (label)		<b>WATER FEATURES</b>		<b>Gravelly spot</b>	
Small airport, airfield, park, oilfield, cemetery, or flood pool		<b>DRAINAGE</b>		<b>Sandy spot</b>	
STATE COORDINATE TICK		<b>Perennial, double line</b>		<b>Severely eroded spot</b>	
LAND DIVISION CORNERS (sections and land grants)		<b>Perennial, single line</b>		<b>RECOMMENDED AD HOC SOIL SYMBOLS</b>	
ROADS		<b>Intermittent</b>		<b>Muck spot less than 1/2 acre in size</b>	
Divided (median shown if scale permits)		<b>Drainage end</b>		<b>Undrained mineral soil less than 1 acre in size in a very poorly drained area</b>	
County, farm or ranch		<b>Canals or ditches</b>			
ROAD EMBLEMS & DESIGNATIONS		<b>Drainage and/or irrigation</b>			
Federal		<b>LAKES, PONDS AND RESERVOIRS</b>			
State		<b>Perennial</b>			
RAILROAD		<b>Intermittent</b>			
		<b>MISCELLANEOUS WATER FEATURES</b>			
		<b>Marsh or swamp</b>			
		<b>Wet spot</b>			
<b>DAMS</b>					
Medium or small					
<b>PITS</b>					
Gravel pit					

"This survey was made cooperatively by the Soil Conservation Service, Purdue University Agricultural Experiment Station, and the Indiana Department of Natural Resources, Soil and Water Conservation Committee. It is part of the technical assistance furnished to the Whitley County Soil and Water Conservation District. Financial assistance was made available by the Whitley County Board of County Commissioners.

Disposition of Original Atlas Field Sheets:

The original atlas field sheets for Whitley County will be retained by the Indiana state office, and will be used in the map compilation and finishing procedures. Copies have been made for fire protection purposes. The state office at Indianapolis will prepare the atlas sheets for publication by January 1986.

Prior Soil Survey Publications:

There is no previous soil survey for Whitley County, Indiana.

Instructions for Map Finishing:

The conventional and special symbols used in this survey are listed on the attached SCS-SOILS-37A. These are the only symbols that will be shown on the published maps. The maps will be finished using the "Guide for Soil Map Finishing," July 1976.

Symbols Hs, Ht, and Wa appear on the field sheets underlined and not underlined. This may give a different publication symbol. The publication symbol for Hs is Hs and for Hs is Bt; for Wa it is Wa and for Wa is Wc; while that for Ht and Ht is Ht. This is noted on the conversion legend.

## PRIME FARMLAND

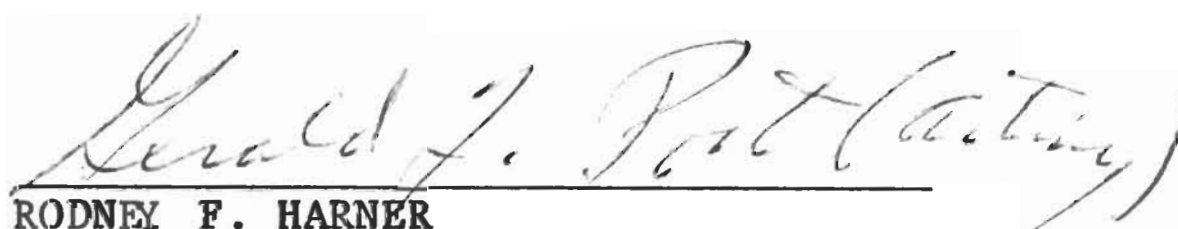
(Only the soils considered prime farmland are listed. Urban or built-up areas of the soils listed are not considered prime farmland. If a soil is prime farmland only under certain conditions, the conditions are specified in parentheses after the soil name)

Map symbol	Soil name
BmA	: Blount silt loam, 0 to 2 percent slopes (where drained)
BmB2	: Blount silt loam, 1 to 4 percent slopes, eroded (where : drained)
BwA	: Boyer sandy loam, 0 to 2 percent slopes
BwB	: Boyer sandy loam, 2 to 6 percent slopes
Bz	: Brookston loam (where drained)
Co	: Coesse silty clay loam (where drained)
CsA	: Crosier sandy loam, 0 to 3 percent slopes (where drained)
Fu	: Fulton silty clay loam (where drained)
GsB2	: Glynwood loam, 3 to 6 percent slopes, eroded
HbA	: Haskins loam, 0 to 3 percent slopes (where drained)
Ho	: Homer loam (where drained)
KaA	: Kalamazoo sandy loam, 0 to 2 percent slopes
KaB	: Kalamazoo sandy loam, 2 to 6 percent slopes
MbB	: Martinsville loam, 1 to 6 percent slopes
Mg	: Mermill loam (where drained)
MmB2	: Miami sandy loam, 2 to 6 percent slopes, eroded
Ms	: Milford silty clay loam (where drained)
MvB2	: Morley loam, 3 to 6 percent slopes, eroded
OsA	: Oshtemo sandy loam, 0 to 2 percent slopes
Pw	: Pewamo silty clay loam (where drained)
RcA	: Rawson sandy loam, 0 to 2 percent slopes
RcB	: Rawson sandy loam, 2 to 6 percent slopes
Re	: Pensselaer loam (where drained)
RhB	: Riddles sandy loam, 1 to 6 percent slopes
Sa	: Saranac silty clay loam, sandy substratum, frequently : flooded (where drained and either protected from : flooding or not frequently flooded during the growing : season)
Se	: Sebewa loam (where drained)
Sh	: Shoals silt loam, sandy substratum, frequently flooded : (where drained and either protected from flooding or not : frequently flooded during the growing season)
So	: Sloan loam, sandy substratum, frequently flooded (where : drained and either protected from flooding or not : frequently flooded during the growing season)

## PRIME FARMLAND--Continued

Map symbol	Soil name
St	Stonelick Variant sandy loam, occasionally flooded
WmB	Wawasee sandy loam, 2 to 6 percent slopes
Wt	Whitaker loam (where drained)

Approved: April 17, 1985

  
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RODNEY F. HARNER  
Head, Soils Staff  
Midwest NTC

CONVERSION LEGEND FOR  
WHITLEY COUNTY, INDIANA<sup>1/</sup>

Field symbol	Publication symbol	Field symbol	Publication symbol	Field symbol	Publication symbol	Field symbol	Publication symbol
Ad	Ae	Ha	Mg	MoC3	MoC3	SfB	SfB
Ae	Ae	HaA	HbA	MoD3	MoD3	SfC	SfC
BaA	BmA	HaB	HbA	MoE3	MmE2	Sh	Sh
BaB2	BmB2	HbA	HbA	Ms	Ms	Sm	Ho
BmA	BmA	HbB	HbA	MvB2	MvB2	So	So
BmB2	BmB2	HeG <sup>Ho</sup>	HeG <sup>Ho</sup>	MvC2	MvC2	SpA	SpB
Bn	Ms	HoA	Ho	MvD2	MvD2	SpB	SpB
BoA	OsA	Hs	Hs	MvE2	MvE2	SpC	SpC
BoB	BvB	Hs	Bt	MxC3	MxC3	SpD	SpC
BoC	BvC	Ht	Ht	MxD3	MxD3	St	St
BoC2	BvC	Ht	Ht	MxE3	MxE3	Ud	Ud
BoD	BvD	KaA	KaA	Mz	Mz	Wa	Wa
Br	Bz	KaB	KaB	Or	Ud	Wa	Wc
Bt	Bt	KrA	BwA	OcA	KaA	Wc	Wc
Bu	Ht	KrB	BwB	OcB2	KaB	Wh	Co
BvB	BvB	KrC	BwC	OmA	OmB	WmA	WmB
BvC	BvC	KrD	BvD	OmB	OmB	WmB	WmB
BvD	BvD	KrD2	BvD	OmC	SpC	WmC	WmC
BwA	BwA	KsA	BwA	OsA	OsA	WmD	MmD2
BwB	BwB	KsB	BwB	OsB	KaB	WpC3	WmC
BwC	BwC	KsC	BwC	Pa	Pa	WpD3	MoD3
Bx	Bz	KsD2	BvD	Pb	Pb	Ws	Se
ByC3	ByC3	KtC3	ByC3	Pt	Ms	Wt	Wt
Bz <sup>Co</sup>	Bz <sup>Co</sup>	KtD3	ByC3	Pw	Pw	WtA	Wt
CrA	CsA	Le	Ms	Px	Px		
CsA	CsA	Lk	Mg	RcA	RcA		
CtA	CsA	MbA	MbB	RcB	RcB		
De	Fu	MbB	MbB	RcC	RcC		
DeA	Fu	MbB2	MbB	Re	Re		
FsA	BwA	MbC	MbC	RhA	RhB		
FsB	BwB	MbC2	MbC	RhB	RhB		
FsC	BwC	Md	Md	RhC	RhC		
FsC2	BwC	Mg	Mg	RhD	MmD2		
FtC3	ByC3	MkA	WmB	RxG	BvD		
Ge <sup>Fu</sup>	St <sup>Fu</sup>	MkB	WmB	Sa	Sa		
Gm	Gw	MkC	WmC	SbB	MvB2		
Gr	Gw	MmB2	MmB2	SbB2	MvB2		
GsB2	GsB2	MmC2	MmC2	SbC	MvC2		
GtB3	GtB3	MmD2	MmD2	SbC2	MvC2		
Gw	Gw	MmE2	MmE2	Se	Se		

<sup>1/</sup> See "Instructions for Map Compilation and Map Finishing."



CLASSIFICATION OF PEDONS SAMPLED  
FOR LABORATORY ANALYSIS

1. Data from Purdue University with SCS-SOILS-8 forms

<u>Sampled as</u>	<u>Pedon Sample No.</u>	<u>Laboratory No.</u>	<u>Publication Symbol</u>	<u>Approved Series Name or Classification</u>
Blount	S80IN183-001	11719	BmA	Blount - Lacks an E horizon
Boyer	S84IN183-007	14065	BvD	Boyer - Inclusion of sandy loam phase
Glynwood	S80IN183-004	11725	GsB2	Glynwood <sup>1/</sup>
Kosciusko	S84IN183-006	14058	BwB	Boyer
Morley	S80IN183-009	11731	MvB2	Morley <sup>1/</sup> BC horizon is 3 inches thick
Pewamo	S80IN183-014	11737	Pw	Pewamo <sup>1/</sup> C horizon has 4 chroma
Wallkill	S80IN183-017	11751	Wa	Wallkill taxadjunct; pedon is fine textured; inclusion in mapping unit
Washtenaw	S80IN183-016	11743	Co	Coesse <sup>1/ 2/</sup>

2. Data from the National Soil Survey Laboratory with SCS-SOILS-8 forms

Crosier	S81IN183-001	824188	CsA	Crosier <sup>1/</sup>
Del Rey	S83IN183-007	841468	Fu	Fulton <sup>1/</sup> less clay in lower C horizon
Haskins	S83IN183-001	833857	HbA	Haskins <sup>1/</sup>
Kalamazoo	S83IN183-003	833871	KaA	Kalamazoo <sup>1/</sup> deeper to loamy sand
Kosciusko	S84IN183-002	842654	BwB	Boyer
Martisco	S80IN183-000	811106	Md	Martisco taxadjunct; soils are coarse-loamy
Mermill	S84IN183-004	842667	Mg	Mermill taxadjunct; Mollic Haplaquept; inclusion in Mermill mapping unit



<u>Sampled as</u>	<u>Pedon Sample No.</u>	<u>Laboratory No.</u>	<u>Publication Symbol</u>	<u>Approved Series Name or Classification</u>
Miami	S81IN183-002	824197	MmB2	Miami <sup>1/</sup>
Muskego	S80IN183-000	811111	Mz	Muskego <sup>1/</sup> medium acid in the C horizon
Rawson	S83IN183-002	833863	RcB	Rawson-E horizon is 6 inches thick; material in lower profile has been moved
Seward	S83IN183-004	833878	SfB	Seward-less clay in 2C horizon
Sloan	S80IN183-018	841474	So	Sloan <sup>1/</sup> Bg includes strata of sandy loam
Spinks	S84IN183-005	842675	SpB	Spinks <sup>1/</sup>
Wawasee	S84IN183-003	842660	WmB	Wawasee <sup>1/</sup>

<sup>1/</sup> Representative pedon for the series in Whitley County, Indiana.  
<sup>2/</sup> Typical pedon for official series description.

Notes to Accompany  
Classification and Correlation  
of the Soils of  
Whitley County, Indiana

by  
Jerry D. Larson and Roger L. Haberman

BLOUNT SERIES

The Bt horizon is slightly thinner than recognized for the series. In addition the soils lack an E horizon. An eroded pedon represents the series.

BOOTS SERIES

The Op, Oa1, and Oa2 layers have granular structure. This type of structure is not recognized in the series.

BOYER SERIES

Soils named Kosciusko in the field correlation are correlated as Boyer. During the final field review the Boyer units were combined with Kosciusko with the thought that the clay content in the argillic horizon was slightly over 18 percent in both. Lab data received by phone during the final correlation conference indicated that soils formerly called Boyer had 13 percent clay and the Kosciusko soils had 14 percent clay. Boyer soils are coarse-loamy. In addition field notes indicates that soils formerly called Boyer had coarser surface textures, than those called Kosciusko, therefore they are separated as loamy sand phases of the series.

COESSE SERIES

This series is established by this correlation. There are about 3900 acres in the survey area.

FULTON SERIES

These soils contain slightly less clay in the C horizon than recognized for the series.

GLYNWOOD SERIES

In Glynwood unit GsB2 the slopes were changed to 3 to 6 percent from that of 3 to 8 percent, so as to better fit the landscape.

HASKINS SERIES

The soils typically have less clay in the 2C horizon than required for the series.

HENNEPIN SERIES

The Bw horizon is slightly thicker than recognized for the series.

HOMER SERIES

Depth to the 2Bt horizon is slightly less than recognized for the series.

KALAMAZOO SERIES

Depth to loamy sand textures is greater than recognized for the series.

MARTISCO SERIES

These soils are taxadjunct to the Martisco series as they are coarse-loamy rather than fine-silty.

MERMILL SERIES

The Bt horizon and solum are slightly thicker; there is more development in the 2B horizon, and there is typically less clay in the C horizon than recognized for the series.

MIAMI SERIES

Chroma of 4 included in the A horizon. This chroma is outside the series range.

MORLEY SERIES

The BC horizon is slightly thinner than recognized for the series.

The slopes in Morley unit MvB2 is changed to 3 to 6 percent from that of 3 to 7 percent and in unit MvC2 to 6 to 12 percent from that of 7 to 12 percent so as to better fit the landscape.

MUSKEGO SERIES

The C horizon is slightly more acid than recognized for the series.

ORMAS SERIES

The Bt horizon is slightly thinner and the 2Bt slightly thicker than recognized for the series.

PALMS SERIES

The C horizon includes chroma of 4. This chroma is outside the range of the series.

PEWAMO SERIES

The C horizon includes chroma of 4. This chroma is outside the range of the series.

RAWSON SERIES

The Bt horizon includes sandy loam in the upper part. The soils typically have less clay in the C horizon than recognized for the series.

SARANAC SERIES

The Bg horizon and solum are thicker than recognized for the series. In addition the B horizon includes 3 value and 6 chroma which are outside the series range.

SEBEWA SERIES

Btg horizon includes 3 value, gravelly sandy loam texture, and reaction of moderately alkaline. These items are outside the series range.

SEWARD SERIES

Soils called Seward Variant in the field correlation are correlated as Seward. They have slightly less clay in the 2C horizon than recognized for the series. In addition the Bt horizon includes a layer of sandy clay loam which is slightly thicker than recognized for the series.

SLOAN SERIES

The Bg horizon includes strata of sandy loam, which is not recognized in the series.

STONELICK VARIANT

These soils are coarse-loamy, mixed, nonacid, mesic Typic Udifluvents. They are borderline to being sandy textured.

WALLKILL SERIES

Soils named Wallkill Variant in the field correlation are within the range of the Wallkill series and are named as a phase of the series. The name of mapping unit Wc is changed to Wallkill silty clay loam, coprogenous earth substratum from that of Wallkill Variant silty clay loam.

## CLASSIFICATION OF THE SOILS

(An asterisk in the first column indicates a taxadjunct to the series. See notes for a description of those characteristics of this taxadjunct that are outside the range of the series)

Soil name	Family or higher taxonomic class
Adrian-----	Sandy or sandy-skeletal, mixed, euic, mesic Terric Medisaprists
Blount-----	Fine, illitic, mesic Aeric Ochraqualfs
Boots-----	Euic, mesic Typic Medihemists
Boyer-----	Coarse-loamy, mixed, mesic Typic Hapludalfs
Brookston----	Fine-loamy, mixed, mesic Typic Argiaquolls
Coesse-----	Fine, mixed, nonacid, mesic Aeric Fluvaquents
Crosier-----	Fine-loamy, mixed, mesic Aeric Ochraqualfs
Fulton-----	Fine, illitic, mesic Aeric Ochraqualfs
Glynwood-----	Fine, illitic, mesic Aquic Hapludalfs
Granby-----	Sandy, mixed, mesic Typic Haplaquolls
Haskins-----	Fine-loamy, mixed, mesic Aeric Ochraqualfs
Hennepin-----	Fine-loamy, mixed, mesic Typic Eutrochrepts
Homer-----	Fine-loamy over sandy or sandy-skeletal, mixed, mesic Aeric Ochraqualfs
Houghton-----	Euic, mesic Typic Medisaprists
Kalamazoo-----	Fine-loamy, mixed, mesic Typic Hapludalfs
Martinsville	Fine-loamy, mixed, mesic Typic Hapludalfs
*Martisco-----	Fine-silty, carbonatic, mesic Histic Humaquepts
Mermill-----	Fine-loamy, mixed, mesic Mollic Ochraqualfs
Miami-----	Fine-loamy, mixed, mesic Typic Hapludalfs
Milford-----	Fine, mixed, mesic Typic Haplaquolls
Morley-----	Fine, illitic, mesic Typic Hapludalfs
Muskego-----	Coprogenous, euic, mesic Limnic Medisaprists
Ormas-----	Loamy, mixed, mesic Arenic Hapludalfs
Oshtemo-----	Coarse-loamy, mixed, mesic Typic Hapludalfs
Palma-----	Loamy, mixed, euic, mesic Terric Medisaprists
Pewamo-----	Fine, mixed, mesic Typic Argiaquolls
Rawson-----	Fine-loamy, mixed, mesic Typic Hapludalfs
Rensselaer----	Fine-loamy, mixed, mesic Typic Argiaquolls
Riddles-----	Fine-loamy, mixed, mesic Typic Hapludalfs
Saranac-----	Fine, mixed, mesic Fluvaquentic Haplaquolls
Sebewa-----	Fine-loamy over sandy or sandy-skeletal, mixed, mesic Typic Argiaquolls
Seward-----	Loamy, mixed, mesic Arenic Hapludalfs
Shoals-----	Fine-loamy, mixed, nonacid, mesic Aeric Fluvaquents

## CLASSIFICATION OF THE SOILS--Continued

Soil name	Family or higher taxonomic class
Sloan-----	Fine-loamy, mixed, mesic Fluvaquentic Haplaquolls
Spinks-----	Sandy, mixed, mesic Psammentic Hapludalfs
Stonelick	Coarse-loamy, mixed, nonacid, mesic Typic
Variant.	Udifluvents
Udorthents---	Loamy, mixed, nonacid, mesic Udorthents
Wallkill-----	Fine-loamy, mixed, nonacid, mesic Thapto-Histic Fluvaquents
Wawasee-----	Fine-loamy, mixed, mesic Typic Hapludalfs
Whitaker-----	Fine-loamy, mixed, mesic Aeric Ochraqualfs